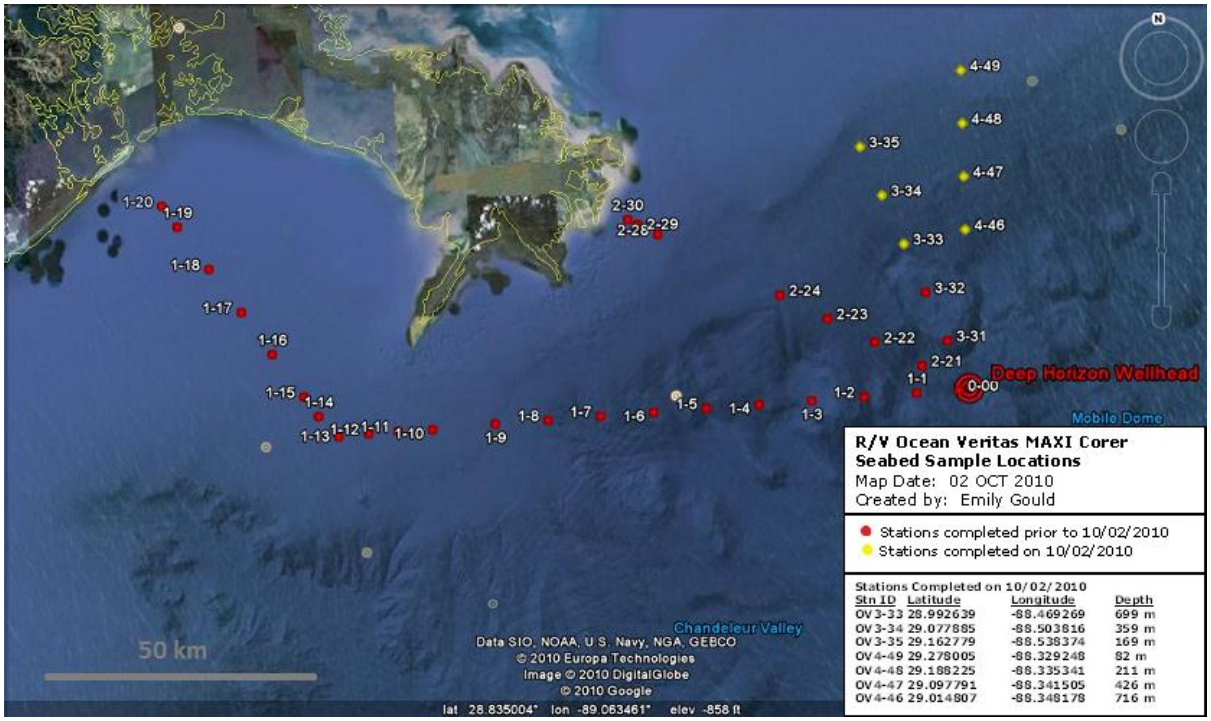
Seabed Sampling and Baited Camera Operations	
Vessel	R/V Ocean Veritas
Summary Report Number	07
Operating equipment	MAXI Corer (8 core unit)
Date	02 October 2010
Completed casts (12 hr)	07
Report compiled by	Brian Critchley/Emily Gould

Seabed Sampling Locations



All cores were processed and stored in accordance with SOPOV01. GC/MS and Microtox™ toxicology testing was planned to be conducted offshore, however outstanding supplies meant that this was not possible. Samples were prepared and stored for hydrocarbon, trace metal, BTEX, grainsize, total inorganic carbon, total organic carbon, meiofauna and macrofauna testing and analysis onshore.

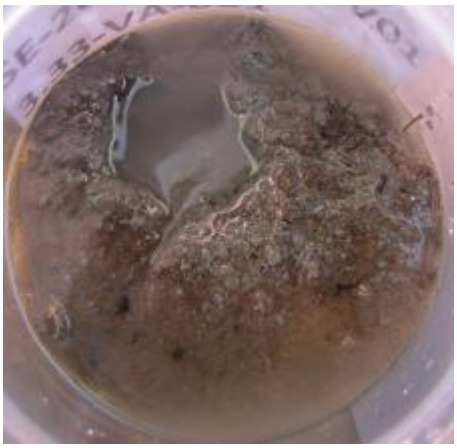
The core tube is 60 cm in length with an internal diameter of 10 cm. Typical sample recovery from the core is as follows:
Supernatant water: length = 15 cm, volume = 1178 cm^3
Sediment: length = 45 cm, volume = 3534 cm^3

Station 3-33

Lat: 28.992639
Long: -88.469269
Cores recovered: 8 out of 8

<u>Supernatant water</u>
Recovery: 13 cm
Visible contamination: None
Olfactible contamination: None

<u>Sediment</u>
Recovery: 47 cm
Visible contamination: None
Olfactible contamination: None
Description: Dark yellowish brown fluidized sediment to approximately 3 cm depth. Olive grey, firm, homogenous silty clay.
Biota: Worms.
Top 3 cm removed for GC/MS analysis prior to core extrusion.

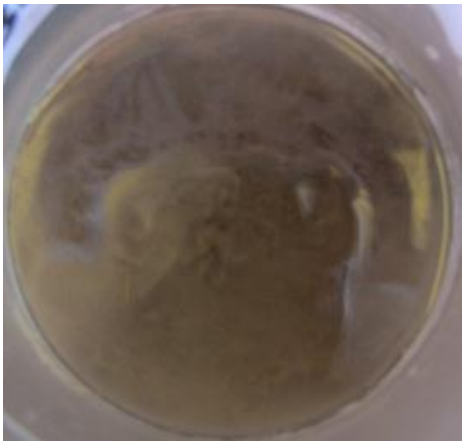


Station 3-34

Lat: 29.077885
Long: -88.503816
Cores recovered: 8 out of 8

Supernatant water
Recovery: 15 cm
Visible contamination: None
Olfactible contamination: None

Sediment
Recovery: 45 cm
Visible contamination: None
Olfactible contamination: None
Description: Dark yellowish brown fluidized sediment up to 0.5 cm depth. Olive grey, soft, homogenous silty clay.
Biota: Worms.
Top 3 cm removed for GC/MS analysis prior to core extrusion.

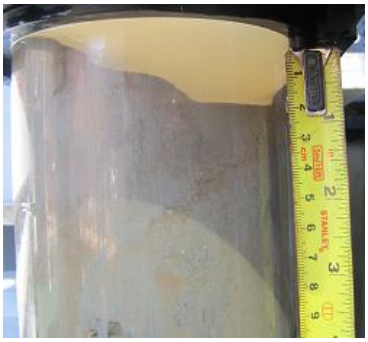


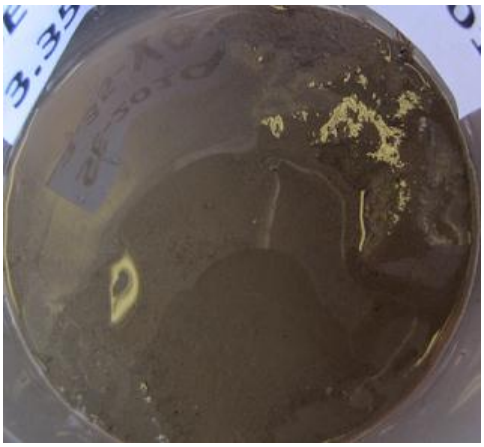
Station 3-35

Lat: 29.162779
Long: -88.538374
Cores recovered: 8 out of 8

Supernatant water
Recovery: 13 cm
Visible contamination: None
Olfactible contamination: None

Sediment
Recovery: 47 cm
Visible contamination: None
Olfactible contamination: None
Description: Olive, very soft, homogenous silty clay becoming olive grey, firm, homogenous silty clay.
Biota: Worms, shrimp.
Top 3 cm removed for GC/MS analysis prior to core extrusion.



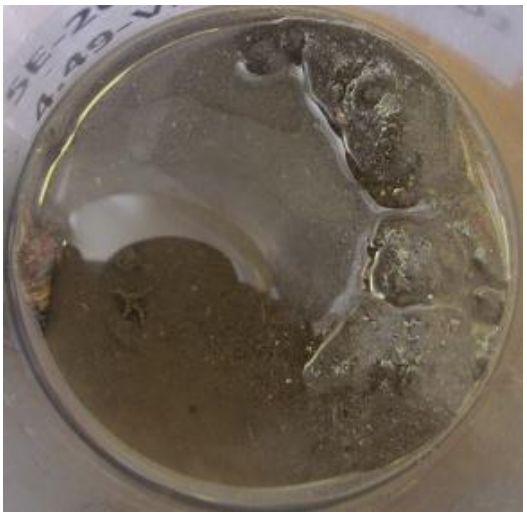


Station 4-49

Lat: 29.278005
Long: -88.329248
Cores recovered: 8 out of 8

Supernatant water
Recovery: 25 cm
Visible contamination: None
Olfactible contamination: None

Sediment
Recovery: 35 cm
Visible contamination: None
Olfactible contamination: None
Description: Olive, firm, homogenous sandy clay with a soft layer approximately 10 cm thick ~20 cm and shell hash throughout.
Biota: Worms, shrimp, hermit crabs.
Top 3 cm removed for GC/MS analysis prior to core extrusion.

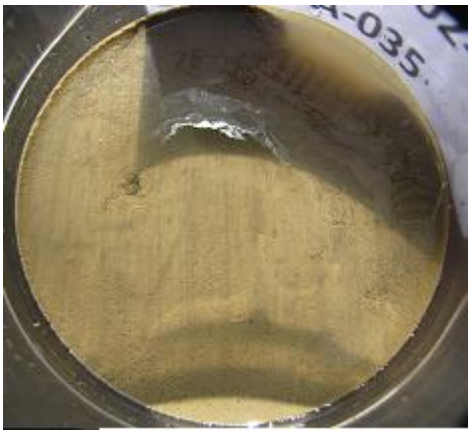


Station 4-48

Lat: 29.188225
Long: -88.335341
Cores recovered: 8 out of 8

<u>Supernatant water</u>
Recovery: 8 cm
Visible contamination: None
Olfactible contamination: None

<u>Sediment</u>
Recovery: 52 cm
Visible contamination: None
Olfactible contamination: None
Description: Light olive brown, very soft to soft, homogenous silty clay.
Biota: Worms.
Top 3 cm removed for GC/MS analysis prior to core extrusion.



Station 4-47

Lat: 29.097791
Long: -88.341505
Cores recovered: 8 out of 8

Supernatant water
Recovery: 17 cm
Visible contamination: None
Olfactible contamination: None

Sediment
Recovery: 43 cm
Visible contamination: None
Olfactible contamination: None
Description: Olive fluidized sediment to approximately 1 cm depth. Olive grey, very soft, homogenous silty clay, becoming firm.
Biota: Worms, sea urchin spines.
Top 3 cm removed for GC/MS analysis prior to core extrusion.

Station 4-46

Lat: 29.014807
Long: -88.348178
Cores recovered: 8 out of 8

Supernatant water
Recovery: 19.5 cm
Visible contamination: None
Olfactible contamination: None

Sediment
Recovery: 40.5 cm
Visible contamination: None
Olfactible contamination: None
Description: Olive fluidized sediment to approximately 1 cm depth. Olive grey, firm, homogenous silty clay, with a soft layer approximately 10 cm thick ~20 cm.
Biota: Worms.
Top 3 cm removed for GC/MS analysis prior to core extrusion.